

# SparkWave SDR

## STM-1 Compact



The SparkWave SDR STM-1 is intended for microwave transmission of STM-1 traffic, operating in 5, 6, 7, 8, 11, 13, 15, 18, 23 and 26 GHz frequency range.

**SPARKWAVE**  
digital microwave radio





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## STM-1 Compact



Split Mount solution with STM-1 IDU and compact ODU.

The STM-1 tributary interface can be optical or electrical. An additional 2Mbit/s wayside channel per traffic channel is available.

Configurations 2+0 and 1+1 with the possibility of using the stand-by connection for low priority traffic are possible.

A management system with an SNMP agent and a OSPF router is built into the unit. No additional equipment is needed except a standard PC computer with built-in web browser.

The unit enables operation in ATPC (Automatic Transmitted Power Control) mode.

### Technical data

<b>Frequency plan</b>	5, 6, 7, 8 GHz	11 GHz	13 GHz	15 GHz	18 GHz	23 GHz	26 GHz
<b>RF output power in dBm</b>	22/26	21/26	20	20	19	18	18
<b>Channel spacing</b>	28 MHz	28 MHz	28 MHz	28 MHz	27,5 MHz	28 MHz	28 MHz
<b>Frequency stability</b>	±5 ppm						
<b>Frequency seeting step</b>	0,25 MHz						
<b>ATPC output power adjusting range</b>	20 dB in 1 dB step						
<b>Receiver treshold at antenna connector in dBm for BERR 10<sup>-5</sup></b>	128QAM/28MHz			-69			
<b>Link protection modes</b>	Hot Stand-By Space Diversity Frequency Diversity Hitless switch						
<b>Traffic interface</b>	Bit rate Installation mode	155,52 Mbit/s ±20 ppm SFP plug-in modle (electrical or optical)					
<b>E1 wayside channel</b>	ITU-T recommendations Bit rate (plesiochronous) Multiplexing principle	G.703 point 6 2.048 kbit/s RSOH and MSOH bytes					
<b>Other interface</b>	Management interface Service channel interface	10 Base-T/100 Base-TX adaptive 10 Base-T/100 Base-TX adaptive					
<b>Mechanical/ Environmental</b>	Operation climatic conditions (temp./humidity.) IDU ODU Storage/transport conditions EMC compatibility Power Supply Power consumption IDU Power consumption ODU Dimensions in mm (HxWxD) IDU Dimensions in mm (HxWxD) ODU Weight IDU Weight ODU						
	-5-+45°C/8-95% ETSI EN 300 019 class 3.1E -33°C-+50°C/5%-100% ETSI EN 300 019 class 4.1E (-50°C-+50°C option) ETSI EN 300 019 class 1.1/class 2.3 ETSI 301 489-4 From 20V to 72V ETSI EN 300 132 (1U/2U) <19W/<39W <25W (1U/2U) 45x442x240/86x442x240 200x150x80/F305x120 (1U/2U) 3,17kg/<5,96kg <6kg						